ABSTRACT

A method for forming an orthogonal code group for use in a spread spectrum communication system is disclosed. The orthogonal code group can be formed by orthogonal rotation of a nonzero real number and complex number sequence. Multiple groups of orthogonal codes can also be obtained by orthogonal rotation of a given orthogonal code group as long as the given code group includes real number and/or complex number elements. Every code within a code group thus formed is substantially orthogonal with other codes within the code group. Furthermore, the code groups thus formed retain desirable characteristics of the initial code group.